



## MicroPatent's Patent Index Database: [Complete Family of JP2001139571A]

6 record(s) found in the family

[no drawing available]

AU6866500A  20010326**Title:** (ENG) Chromone derivatives, process for the preparation of the same and uses thereof**Application Number:** AU 6866500 D**Application (Filing) Date:** 20000831**Priority Data:** JP 24741899 19990901 A X; JP 0005910 20000831 W V;**Inventor(s):** YASUMA TSUNEO ; KAWASE MASAHIRO ; MORI AKIRA**Assignee/Applicant/Grantee:** TAKEDA CHEMICAL INDUSTRIES LTD**IPC (International Class):** C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; A61P01908; A61P01902; A61P01910; A61P02900**Other Abstracts for Family Members:** CHEMABS134(14)193450P; DERABS C2001-257693EP1211251A1  20020605 FullText**Title:** (ENG) CHROMONE DERIVATIVES, PROCESS FOR THE PREPARATION OF THE SAME AND USES THEREOF**Abstract:** (ENG)

The invention provides chromone derivatives of the following general formula, a process for preparing such chromone derivatives and a prophylactic and therapeutic agent comprising such chromone derivatives for bone diseases and chondropathy: wherein the ring A is an optionally substituted benzene ring; R1 is an optionally substituted non-aromatic heterocyclic group; R2 is a hydrogen atom or hydrocarbon group; R3 is a hydrogen atom, hydrocarbon group or halogen; n is an integer of 0-3; or a salt thereof.

**Application Number:** EP 00956835 A**Application (Filing) Date:** 20000831**Priority Data:** JP 0005910 20000831 W V; JP 24741899 19990901 A I;**Inventor(s):** YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP**Assignee/Applicant/Grantee:** TAKEDA CHEMICAL INDUSTRIES LTD JP**Last Modification Date:** 20050202**IPC (International Class):** C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; A61P01908; A61P01902; A61P01910; A61P02900**ECLA (European Class):** C07D40512; C07D31124; C07D40512; C07D41312; C07D41712; C07D49304**Designated Countries:**

- Designated States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**Publication Language:** ENG**Agent(s):** Lewin, John Harvey et al 00033035 Takeda Patent Office, 11-12 Charles II Street London SW1Y 4QU GB**Other Abstracts for Family Members:** CHEMABS134(14)193450P; DERABS C2001-257693**Non-Patent Citations:**

- See also references of WO 0116127A1

**Patents Cited:**

- BE654149 A X 0
- DE2132260 A X 0

**Additional Information:**

- Date of Application deemed Withdrawn 20040629
- Date of request for examination 20020308
- Date of dispatch of first examination report 20030611
- Patent bulletin/ gazette information 20050126 200504
- Date of drawing up and dispatch of supp. search report(A4) 20030220
- PCT application data JP2000005910 20000831 JPN
- PCT publication data WO2001016127 20010308 200110

### EPO Register

**EP1211251A4**  **20030409 FullText**

**Title:** (ENG) CHROMONE DERIVATIVES, PROCESS FOR THE PREPARATION OF THE SAME AND USES THEREOF

**Abstract:** (ENG)

The invention provides chromone derivatives of the following general formula, a process for preparing such chromone derivatives and a prophylactic and therapeutic agent comprising such chromone derivatives for bone diseases and chondropathy: wherein the ring A is an optionally substituted benzene ring; R1 is an optionally substituted non- aromatic heterocyclic group; R2 is a hydrogen atom or hydrocarbon group; R3 is a hydrogen atom, hydrocarbon group or halogen; n is an integer of 0-3; or a salt thereof.

**Application Number:** EP 00956835 A

**Application (Filing) Date:** 20000831

**Priority Data:** JP 0005910 20000831 W V; JP 24741899 19990901 A I;

**Inventor(s):** YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP

**Assignee/Applicant/Grantee:** TAKEDA CHEMICAL INDUSTRIES LTD JP

**Last Modification Date:** 20050202

**IPC (International Class):** C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; C07D49304

**ECLA (European Class):** C07D40512; C07D31124; C07D40512; C07D41312; C07D41712; C07D49304

**Designated Countries:**

- Designated States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**Publication Language:** ENG

**Agent(s):** Lewin, John Harvey et al 00033035 Takeda Patent Office, 11-12 Charles II Street London SW1Y 4QU GB

**Other Abstracts for Family Members:** CHEMABS134(14)193450P; DERABS C2001-257693

**Non-Patent Citations:**

- See also references of WO 0116127A1

**Patents Cited:**

- BE654149 A X 0
- DE2132260 A X 0

**Additional Information:**

- Date of Application deemed Withdrawn 20040629
- Date of request for examination 20020308
- Date of dispatch of first examination report 20030611
- Patent bulletin/ gazette information 20050126 200504
- Date of drawing up and dispatch of supp. search report(A4) 20030220
- PCT application data JP2000005910 20000831 JPN
- PCT publication data WO2001016127 20010308 200110

**JP2001139571A**  **20010522 FullText**

**Title:** (ENG) CHROMONE DERIVATIVE, METHOD FOR PRODUCING THE SAME, AND USE

**Abstract:** (ENG)

**PROBLEM TO BE SOLVED:** To provide a chromone derivative having a remarkably excellent osteoplasia-promoting action, to provide a method for producing the same, and also to provide the use of the same.

**SOLUTION:** This compound represented by the formula [the ring A is a benzene ring which may have one or more substituents; R1 is a non- aromatic heterocyclic

group which may have one or more substituents; R2 is hydrogen atom or a hydrocarbon group; R3 is hydrogen atom, a hydrocarbon group or a halogen; (n) is an integer of 0 to 3] or its salt is useful as a medicine for preventing treating bone diseases, chondropathy and fracture, because of having a remarkably excellent osteoplastic-promoting action.

**Application Number:** JP 2000268389 A

**Application (Filing) Date:** 20000831

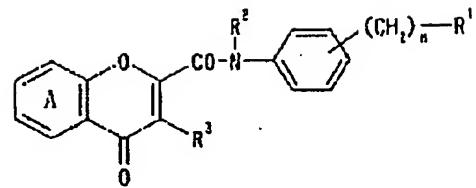
**Priority Data:** JP 2000268389 20000831 A X; JP 24741899 19990901 A X;

**Inventor(s):** YASUMA TSUNEO ; KAWASE MASAHIRO ; MORI AKIRA

**Assignee/Applicant/Grantee:** TAKEDA CHEMICAL INDUSTRIES LTD

**IPC (International Class):** C07D40112; A61K031422; A61P01908; C07D41312

**Other Abstracts for Family Members:** CHEMABS134(14)193450P; DERABS C2001-257693



**US6552054B1** 20030422 FullText

**Title:** (ENG) Chromone derivatives, process for the preparation of the same and uses thereof

**Abstract:** (ENG)

The invention provides chromone derivatives of the following general formula, a process for preparing such chromone derivatives and a prophylactic and therapeutic agent comprising such chromone derivatives for bone diseases and chondropathy:

wherein the ring A is an optionally substituted benzene ring; R 1 is an optionally substituted non-aromatic heterocyclic group; R 2 is a hydrogen atom or hydrocarbon group; R 3 is a hydrogen atom, hydrocarbon group or halogen; n is an integer of 0-3; or a salt thereof.

**Application Number:** US 7015002 A

**Application (Filing) Date:** 20020301

**Priority Data:** JP 24741899 19990901 A A; JP 0005910 20000831 W V;

**Inventor(s):** YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP

**Assignee/Applicant/Grantee:** TAKEDA CHEMICAL INDUSTRIES LTD JP

**Last Modification Date:** 20041026

**IPC (International Class):** A61K031425; A61K03142; A61K03135

**ECLA (European Class):** C07D31124; C07D40512; C07D40512; C07D41312; C07D41712; C07D41712; C07D49304

**US Class:** 514365; 5142335; 514320; 514376; 514456; 549402; 548183; 548192; 548215; 548226; 546196; 544151

**Agent(s):** Chao Mark ; Ramesh Elaine M.

**Examiner Primary:** Owens, Amelia

**Other Abstracts for Family Members:** CHEMABS134(14)193450P; DERABS C2001-257693

**Non-Patent Citations:**

- Raposo, Cesar; Almaraz, Marta; Martin, Mercedes; Alcazar, Victoria; Caballero, Ma Crus; Morari, Joaquin R. 'The effect of chromenone receptors on the selectivity of the reaction between pyrrolidine and 5-hydroxymethyl-2(5H)-furanone' 1997.\*
- Sohda, Takashi; Taketomi, Shigehisa; Oda, Tsuneo 'Benzopyran derivatives and their use' 1995.

**Patents Cited:**

→ JP256358 20000900 OTHER

→ WO6550 20000200 OTHER

**Assignments Reported to USPTO:**

**Reel/Frame:** 12810/0965      **Date Signed:** 20020201      **Date Recorded:** 20020301

**Assignee:** TAKEDA CHEMICAL INDUSTRIES LTD. INTELLECTUAL PROPERTY DEPARTMENT 1-1, DOSHOMACHI 4-CHOME, CHUO-KU OSAKA 540-8 JAPAN

**Assignor:** KAWASE, MASAHIRO; MORI, AKIRA; YASUMA, TSUNEO

**Corres. Addr.:** TAKEDA PHARMACEUTICALS NORTH AMERICA INC MARK CHAO, PHD, JD INTELLECTUAL PROPERTY DEPARTMENT 475 HALF DAY ROAD, SUITE 500 LINCOLNSHIRE, ILLINOIS 60069

Brief: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

## Additional Information:

- Number of claims 18
- Exemplary claim number(s) 1
- National classifications searched, 549402, 544151, 548183, 548192, 548215, 548226, 514456, 5142335, 514376, 514365, 514320, 546196
- Number of drawing sheets 0
- Number of figures 0
- PCT application data JP0005910 20000831 WO
- PCT publication data WO0116127 20010803 WO A

## EPO Register

WO2001016127A1 20010308 FullText

Title: (ENG) CHROMONE DERIVATIVES, PROCESS FOR THE PREPARATION OF THE SAME AND USES THEREOF

Abstract: (ENG)

Chromone derivatives represented by general formula (I) or salts thereof; a process for the preparation thereof; and preventive or therapeutic agents for bone diseases, cartilage diseases or fracture, containing the derivatives or the salts. In said formula (I) A is an optionally substituted benzene ring; R 1 is an optionally substituted nonaromatic heterocyclic group; R 2 is hydrogen or hydrocarbyl; R3 is hydrogen, hydrocarbyl, or halogeno; and n is an integer of 0 to 3.

Application Number: JP 0005910 W

Application (Filing) Date: 20000831

Priority Data: JP 24741899 19990901 A I;

Inventor(s): YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP

Assignee/Applicant/Grantee: TAKEDA CHEMICAL INDUSTRIES LTD JP; YASUMA TSUNEO JP; KAWASE MASAHIRO JP; MORI AKIRA JP

Last Modification Date: 20050526

IPC (International Class): C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; A61P01908; A61P01902; A61P01910; A61P02900

ECLA (European Class): C07D41712; C07D31124; C07D40512; C07D40512; C07D41312; C07D41712; C07D49304

## Designated Countries:

- Designated States: AE AG AL AM AU AZ BA BB BG BR BY BZ CA CN CR CU CZ DM DZ EE GD GE HR HU ID IL IN IS JP KG KR KZ LC LK LR LT LV MA MD MG MK MN MX MZ NO NZ PL RO RU SG SI SK TJ TM TR TT UA US UZ VN YU ZA
- Regional Treaties: GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: JAP

Agent(s): TAKAHASHI, Shuichi Osaka Plant of Takeda Chemical Industries, Ltd.; 17-85, Jusohonmachi 2-chome, Yodogawa-ku, Osaka-shi, Osaka 532-0024 JP

Other Abstracts for Family Members: CHEMABS134(14)193450P; DERABS C2001-257693

Other Abstracts for This Document: CHEMABS134(14)193450P; DERABS C2001-257693

## Non-Patent Citations:

- CESAR RAPOSO ET AL.: 'The effect of chromenone receptors on the selectivity of the reaction between pyrrolidine and 5-hydroxymethyl-2-(5H)-furanone' CHEM. LETT. no. 2, 1997, pages 173 - 174, XP002935175
- See also references of EP 1211251A1

## Patents Cited:

- EP0625522 A X 0
- WO0006550 A XP 0
- JP2000256358 A XP 0

1

2.abl

2.def

2.xls

Search

List

First

Prev

2

def

xls

Last

3

4

5

6

Copyright © 2002, MicroPatent, LLC. The contents of this page are the property of MicroPatent LLC including without limitation all text, html, asp, javascript and xml. All rights herein are reserved to the owner and this page cannot be reproduced without the express permission of the owner.